

Unboxing Machine Learning for Civil Engineers: From Data-driven to Explainability & Causality

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● State of the Industry / Profession

This session aims to highlight how machine learning (ML), which is already transforming our lives, can transform our civil engineering industry into a new frontier. While many civil engineers remain hesitant of ML and perceive ML as a form of statistics, this session will “unbox” ML for civil engineers by civil engineers.

A key focus is to showcase the fundamentals of ML and outline the key differences between ML and other traditional methods. A second focus is to illustrate the recent advancement in ML on the fronts of explainability, and trustworthiness – both of which are elemental to the successful adoption of ML into civil engineering.

Speaker(s)

[M.Z. Naser, Ph.D., P.E., M.ASCE](#)